

# **EXHIBIT 65**

## **(Part 8 of 8)**

## APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
snmp-server group	snmp-server group	<p><b>Command Syntax</b></p> <pre>snmp-server group group_name VERSION [CNTX] [READ] [WRITE] [NOTIFY] no snmp-server group group_name VERSION default snmp-server group group_name VERSION</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>group_name</i> the name of the group.</li> <li>• <i>VERSION</i> the security model utilized by the group. <ul style="list-style-type: none"> <li>— <b>v1</b> SNMPv1. Uses a community string match for authentication.</li> <li>— <b>v2c</b> SNMPv2c. Uses a community string match for authentication.</li> <li>— <b>v3 no auth</b> SNMPv3. Uses a username match for authentication.</li> <li>— <b>v3 auth</b> SNMPv3. HMAC-MD5 or HMAC-SHA authentication.</li> <li>— <b>v3 priv</b> SNMPv3. HMAC-MD5 or HMAC-SHA authentication. AES or DES encryption.</li> </ul> </li> <li>• <i>CNTX</i> associates the SNMP group to an SNMP context. <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; command does not associate group with an SNMP context.</li> <li>— <b>context context_name</b> associates group with context specified by <i>context_name</i>.</li> </ul> </li> <li>• <i>READ</i> specifies read view for SNMP group. <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; command does not specify read view.</li> <li>— <b>read read_name</b> read view specified by <i>read_name</i> (string – maximum 64 characters).</li> </ul> </li> <li>• <i>WRITE</i> specifies write view for SNMP group. <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; command does not specify write view.</li> <li>— <b>write write_name</b> write view specified by <i>write_name</i> (string – maximum 64 characters).</li> </ul> </li> <li>• <i>NOTIFY</i> specifies notify view for SNMP group. <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; command does not specify notify view.</li> <li>— <b>notify notify_name</b> notify view specified by <i>notify_name</i> (string – maximum 64 characters).</li> </ul> </li> </ul>	No

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snmp-server host	snmp-server host	<p><b>Command Syntax</b></p> <pre>snmp-server host host_id [VRF_INST] [MESSAGE] [VERSION] comm_str [PORT] no snmp-server host host_id [VRF_INST] [MESSAGE] [VERSION] comm_str [PORT] default snmp-server host host_id [VRF_INST] [MESSAGE] [VERSION] comm_str [PORT]</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>host_id</i> hostname or IP address of the targeted recipient.</li> <li><i>VRF_INST</i> specifies the VRF instance being modified. <ul style="list-style-type: none"> <li>&lt;no parameter&gt; changes are made to the default VRF.</li> <li><b>vrf</b> <i>vrf_name</i> changes are made to the specified user-defined VRF.</li> </ul> </li> <li><i>MESSAGE</i> message type that is sent to the host. <ul style="list-style-type: none"> <li>&lt;no parameter&gt; sends SNMP traps to host (default).</li> <li><b>informs</b> sends SNMP informs to host.</li> <li><b>traps</b> sends SNMP traps to host.</li> </ul> </li> <li><i>VERSION</i> SNMP version. Options include: <ul style="list-style-type: none"> <li>&lt;no parameter&gt; SNMPv2c (default).</li> <li><b>version 1</b> SNMPv1; option not available with informs.</li> <li><b>version 2c</b> SNMPv2c.</li> <li><b>version 3 noauth</b> SNMPv3; enables user-name match authentication.</li> <li><b>version 3 auth</b> SNMPv3; enables MD5 and SHA packet authentication.</li> <li><b>version 3 priv</b> SNMPv3. HMAC-MD5 or HMAC-SHA authentication. AES or DES encryption.</li> </ul> </li> <li><i>comm_str</i> community string to be sent with the notification as a password. Arista recommends setting this string separately before issuing the <b>snmp-server host</b> command. To set the community string separately, use the <b>snmp-server community</b> command.</li> <li><i>PORT</i> port number of the host. <ul style="list-style-type: none"> <li>&lt;no parameter&gt; socket number set to 162 (default)</li> <li><b>udp-port</b> <i>p-name</i> socket number specified by <i>p-name</i></li> </ul> </li> </ul>	No

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snmp-server location	snmp-server location	<p><b>Command Syntax</b></p> <pre>snmp-server location <i>node_locate</i> no snmp-server location default snmp-server location</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>node_locate</i> system location information (string).</li> </ul>	No
snmp-server source-interface	snmp-server source-interface	<p><b>Command Syntax</b></p> <pre>snmp-server source-interface <i>INTERFACE</i> no snmp-server source-interface default snmp-server source-interface</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>INTERFACE</i> Interface type and number. Values include: <ul style="list-style-type: none"> <li>— <b>ethernet</b> <i>e_num</i> Ethernet interface specified by <i>e_num</i>.</li> <li>— <b>loopback</b> <i>l_num</i> Loopback interface specified by <i>l_num</i>.</li> <li>— <b>management</b> <i>m_num</i> Management interface specified by <i>m_num</i>.</li> <li>— <b>port-channel</b> <i>p_num</i> Port-Channel Interface specified by <i>p_num</i>.</li> <li>— <b>vlan</b> <i>v_num</i> VLAN interface specified by <i>v_num</i>.</li> </ul> </li> </ul>	No

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snmp-server user	snmp-server user	<p><b>Command Syntax</b></p> <pre>snmp-server user user_name group_name [AGENT] VERSION [ENGINE] [SECURITY] no snmp-server user user_name group_name [AGENT] VERSION default snmp-server user user_name group_name [AGENT] VERSION</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>user_name</i> name of user.</li> <li><i>group_name</i> name of group to which user is being added.</li> <li><i>AGENT</i> Options include: <ul style="list-style-type: none"> <li>&lt;no parameter&gt; local SNMP agent.</li> <li><b>remote</b> <i>addr</i> [<b>udp-port</b> <i>p_num</i>] remote SNMP agent location.</li> </ul> <i>addr</i> denotes the IP address; <i>p_num</i> denotes the udp port socket. (default port is 162).</li> <li><i>VERSION</i> SNMP version; options include: <ul style="list-style-type: none"> <li><b>v1</b> SNMPv1.</li> <li><b>v2c</b> SNMPv2c.</li> <li><b>v3</b> SNMPv3.</li> </ul> </li> <li><i>ENGINE</i> engine ID used to localize passwords. Available only if <i>VERSION</i> is <b>v3</b>. <ul style="list-style-type: none"> <li>&lt;no parameter&gt; Passwords localized by SNMP copy specified by <i>agent</i>.</li> <li><b>localized</b> <i>engineID</i> octet string of engineID.</li> </ul> </li> <li><i>SECURITY</i> Specifies authentication and encryption levels. Available only if <i>VERSION</i> is <b>v3</b>. Encryption is available only when authentication is configured. <ul style="list-style-type: none"> <li>&lt;no parameter&gt; no authentication or encryption.</li> <li><b>auth</b> <i>a_meth</i> <i>a_pass</i> [<b>priv</b> <i>e_meth</i> <i>e_pass</i>] authentication parameters.</li> </ul> <p><i>a-meth</i> authentication method: options are <b>md5</b> (HMAC-MD5-96) and <b>sha</b> (HMAC-SHA-96).  <i>a-pass</i> authentication string for users receiving packets.  <i>e-meth</i> encryption method: Options are <b>aes</b> (AES-128) and <b>des</b> (CBC-DES).  <i>e-pass</i> encryption string for the users sending packets.</p> </li> </ul>	No

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snmp-server view	snmp-server view	<p><b>Command Syntax</b></p> <pre>snmp-server view view_name family_name INCLUSION no snmp-server view view_name [family_name] snmp-server view view_name [family_name]</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>view_name</i> Label for the view record that the command updates. Other commands reference the view with this label.</li> <li>• <i>family_name</i> name of the MIB object or family. MIB objects and MIB subtrees can be identified by name or by the numbers representing the position of the object or subtree in the MIB hierarchy.</li> <li>• <b>INCLUSION</b> inclusion level of the specified family within the view. Options include: <ul style="list-style-type: none"> <li>— <b>include</b> view includes the specified subtree.</li> <li>— <b>exclude</b> view excludes the specified subtree.</li> </ul> </li> </ul>	No
spanning-tree bpdudfilter	spanning-tree bpdudfilter	<p><b>Command Syntax</b></p> <pre>spanning-tree bpdudfilter FILTER_STATUS no spanning-tree bpdudfilter default spanning-tree bpdudfilter</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <b>FILTER_STATUS</b> BPDU filtering status. Options include: <ul style="list-style-type: none"> <li>— <b>enabled</b> BPDU filter is enabled on the interface.</li> <li>— <b>disabled</b> BPDU filter is disabled on the interface.</li> </ul> </li> </ul>	No

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Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
spanning-tree bpduguard	spanning-tree bpduguard	<p><b>Command Syntax</b></p> <pre>spanning-tree bpduguard <i>GUARD_ACTION</i> no spanning-tree bpduguard default spanning-tree bpduguard</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>GUARD_ACTION</i> BPDU guard setting. Options include: <ul style="list-style-type: none"> <li>— <b>disable</b> Disable bpduguard</li> <li>— <b>enable</b> Enable bpduguard</li> <li>— <b>rate-limit</b> BPDU Input Rate Limiter options</li> </ul> </li> </ul>	No
spanning-tree bridge assurance	spanning-tree bridge assurance	<p><b>Command Syntax</b></p> <pre>spanning-tree bridge assurance no spanning-tree bridge assurance default spanning-tree bridge assurance</pre>	Yes

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Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
spanning-tree cost	spanning-tree cost	<p><b>Command Syntax</b></p> <pre>spanning-tree <i>MODE</i> cost <i>value</i> no spanning-tree <i>MODE</i> cost default spanning-tree <i>MODE</i> cost</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>MODE</i> specifies the spanning tree instances for which the cost is configured. Values include: <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; RST instance, MST instance 0, or all Rapid-PVST instances permitted on the interface.</li> <li>— <b>mst</b> <i>m_range</i> specified MST instances. <i>m_range</i> formats include a number, number range, or comma-delimited list of numbers and ranges. Instance numbers range from 0 to 4094.</li> <li>— <b>vlan</b> <i>v_range</i> specified Rapid-PVST instances. <i>v_range</i> formats include a number, number range, or comma-delimited list of numbers and ranges. VLAN numbers range from 1 to 4094.</li> </ul> </li> <li>• <i>value</i> path cost assigned to interface. Values range from 1 to 2000000000 (200 million). Default values are 20000 (1 G interfaces) or 2000 (10 G interfaces).</li> </ul>	No
spanning-tree guard	spanning-tree guard	<p><b>Command Syntax</b></p> <pre>spanning-tree guard <i>PORT_MODE</i> no spanning-tree guard default spanning-tree guard</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>PORT_MODE</i> the port mode. Options include: <ul style="list-style-type: none"> <li>— <b>loop</b> enables loop guard on the interface.</li> <li>— <b>root</b> enables root guard on the interface.</li> <li>— <b>none</b> disables root guard and loop guard.</li> </ul> </li> </ul>	No



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spanning-tree link-type	spanning-tree link-type	<b>Command Syntax</b> spanning-tree link-type <i>TYPE</i> no spanning-tree link-type default spanning-tree link-type  <b>Parameters</b> <ul style="list-style-type: none"> <li><i>TYPE</i> link type of the configuration mode interface. Options include:               <ul style="list-style-type: none"> <li>— point-to-point</li> <li>— shared</li> </ul> </li> </ul>	No
spanning-tree loopguard default	spanning-tree loopguard default	<b>Command Syntax</b> spanning-tree loopguard default no spanning-tree loopguard default default spanning-tree loopguard default	Yes

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spanning-tree mode	spanning-tree mode	<p><b>Command Syntax</b></p> <pre>spanning-tree mode VERSION no spanning-tree mode default spanning-tree mode</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <b>VERSION</b> spanning tree version that the switch runs. Options include: <ul style="list-style-type: none"> <li>— <b>mstp</b> multiple spanning tree protocol described in the IEEE 802.1Q-2005 specification and originally specified in the IEEE 802.1s specification.</li> <li>— <b>rstp</b> rapid spanning tree protocol described in the IEEE 802.1D-2004 specification and originally specified in the IEEE 802.1w specification.</li> <li>— <b>rapid-pvst</b> rapid per-VLAN spanning tree protocol described in the IEEE 802.1D-2004 specification and originally specified in the IEEE 802.1w specification.</li> <li>— <b>backup</b> disables STP and enables switchport interface pairs configured with the <b>switchport backup interface</b> command.</li> <li>— <b>none</b> disables STP. The switch does not generate STP packets. Each switchport interface forwards data packets to all connected ports and forwards STP packets as multicast data packets on the VLAN where they are received.</li> </ul> </li> </ul>	No
spanning-tree mst configuration	spanning-tree mst configuration	<p><b>Command Syntax</b></p> <pre>spanning-tree mst configuration no spanning-tree mst configuration default spanning-tree mst configuration</pre>	Yes

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spanning-tree portfast bpdufilter default	spanning-tree portfast bpdufilter default	<b>Command Syntax</b> <span>spanning-tree portfast bpdufilter default</span> <span>no spanning-tree portfast bpdufilter default</span> <span>default spanning-tree portfast bpdufilter default</span>	Yes
spanning-tree portfast bpduguard default	spanning-tree portfast bpduguard default	<b>Command Syntax</b> <span>spanning-tree portfast bpduguard default</span> <span>no spanning-tree portfast bpduguard default</span> <span>default spanning-tree portfast bpduguard default</span>	Yes
spanning-tree port-priority	spanning-tree port-priority	<b>Command Syntax</b> <span>spanning-tree [MODE] port-priority value</span> <span>no spanning-tree [MODE] port-priority</span> <span>default spanning-tree [MODE] port-priority</span>  <b>Parameters</b> <ul style="list-style-type: none"> <li>• <i>MODE</i> specifies the spanning tree instances for which the cost is configured. Values include: <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; RST instance or MST instance 0.</li> <li>— <i>mst m_range</i> specified MST instances. <i>m_range</i> formats include a number, number range, or comma-delimited list of numbers and ranges. Instance numbers range from 0 to 4094.</li> <li>— <i>vlan v_range</i> specified Rapid-PVST instances. <i>v_range</i> formats include a number, number range, or comma-delimited list of numbers and ranges. VLAN numbers range from 1 to 4094.</li> </ul> </li> <li>• <i>value</i> bridge priority number. Values range from 0 to 240 and must be a multiple of 16.</li> </ul>	No

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spanning-tree transmit hold-count	spanning-tree transmit hold-count	<p><b>Command Syntax</b></p> <pre>spanning-tree transmit hold-count <i>max_bpdu</i> no spanning-tree transmit hold-count default spanning-tree transmit hold-count</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>max_bpdu</i> BPDUs. Value ranges from 1 to 10. Default is 6.</li> </ul>	No
spanning-tree vlan	spanning-tree vlan	<p><b>Command Syntax</b></p> <pre>spanning-tree vlan <i>v_range</i> no spanning-tree vlan <i>v_range</i> default spanning-tree vlan <i>v_range</i></pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>v_range</i> VLAN list. Formats include a number, number range, or comma-delimited list of numbers and ranges. VLAN numbers range from 1 to 4094.</li> </ul>	No
spf-interval	spf-interval	<p><b>Command Syntax</b></p> <pre>spf-interval <i>period</i> no spf-interval default spf-interval</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>period</i> Value ranges from 1 through 300. Default interval is 2 seconds.</li> </ul>	No

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statistics per-entry	statistics per-entry (ACL configuration modes)	<b>Command Syntax</b> <code>statistics per-entry</code> <code>no statistics per-entry</code> <code>default statistics per-entry</code>	Yes
storm-control	storm-control	<b>Command Syntax</b> <code>storm-control <i>MODE</i> level <i>threshold</i></code> <code>no storm-control <i>mode</i></code> <code>default storm-control <i>mode</i></code>  <b>Parameters</b> <ul style="list-style-type: none"> <li>• <i>MODE</i> packet transmission type. Options include: <ul style="list-style-type: none"> <li>— all</li> <li>— broadcast</li> <li>— multicast</li> </ul> </li> <li>• <i>threshold</i> Inbound packet level that triggers storm control, as a percentage of port capacity. Value ranges from 1 to 100. Storm control is suppressed by a level of 100.</li> </ul> <p>The configured value differs from the programmed threshold in that the hardware accounts for Interframe Gaps (IFG) based on the minimum packet size. The <a href="#">show storm-control</a> command displays the broadcast or multicast rate after this adjustment.</p>	No

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switchport access vlan	switchport access vlan	<p><b>Command Syntax</b></p> <pre>switchport access vlan v_num no switchport access vlan default switchport access vlan</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>v_num</i> number of access VLAN. Value ranges from 1 to 4094. Default is 1.</li> </ul>	No
switchport backup interface	switchport backup interface	<p><b>Command Syntax</b></p> <pre>switchport backup interface INT_NAME [BALANCE] no switchport backup interface default switchport backup interface</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>INT_NAME</i> the backup interface. Options include: <ul style="list-style-type: none"> <li><b>ethernet</b> <i>e_num</i> Ethernet interface specified by <i>e_num</i>.</li> <li><b>loopback</b> <i>l_num</i> Loopback interface specified by <i>l_num</i>.</li> <li><b>management</b> <i>m_num</i> Management interface specified by <i>m_num</i>.</li> <li><b>port-channel</b> <i>p_num</i> Channel group interface specified by <i>p_num</i>.</li> <li><b>vlan</b> <i>v_num</i> VLAN interface specified by <i>v_num</i>.</li> <li><b>vxlan</b> <i>vx_num</i> VXLAN interface specified by <i>vx_num</i>.</li> </ul> </li> <li><b>BALANCE</b> VLANs whose traffic is normally handled on the backup interfaces. Values include: <ul style="list-style-type: none"> <li><b>&lt;no parameter&gt;</b> backup interface handles no traffic if the primary interface is operating.</li> <li><b>prefer vlan</b> <i>v_range</i> list of VLANs whose traffic is handled by backup interface.</li> </ul> </li> </ul>	No

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switchport mode	switchport mode	<p><b>Command Syntax</b></p> <pre>switchport mode <i>MODE_TYPE</i> no switchport mode default switchport mode</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>MODE_TYPE</i> switching mode of the configuration mode interfaces. Options include: <ul style="list-style-type: none"> <li>— <b>access</b> access switching mode.</li> <li>— <b>dot1q-tunnel</b> dot1q-tunnel switching mode.</li> <li>— <b>tap</b> tap switching mode.</li> <li>— <b>tool</b> tool switching mode.</li> <li>— <b>trunk</b> trunk switching mode.</li> </ul> </li> </ul>	No
switchport port-security	switchport port-security	<p><b>Command Syntax</b></p> <pre>switchport port-security no switchport port-security default switchport port-security</pre>	Yes
switchport port-security maximum	switchport port-security maximum	<p><b>Command Syntax</b></p> <pre>switchport port-security maximum <i>max_addr</i> no switchport port-security maximum default switchport port-security maximum</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>max_addr</i> maximum number of MAC addresses. Value ranges from 1 to 1000. Default value is 1.</li> </ul>	No

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Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
switchport private-vlan mapping	switchport private-vlan mapping	<p><b>Command Syntax</b></p> <pre>switchport private-vlan mapping <i>EDIT_ACTION</i> no switchport private-vlan mapping default switchport private-vlan mapping</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>EDIT_ACTION</i> modifications to the VLAN list. <ul style="list-style-type: none"> <li>— <i>v_range</i> Creates VLAN list from <i>v_range</i>.</li> <li>— <b>add</b> <i>v_range</i> Adds specified VLANs to current list.</li> <li>— <b>remove</b> <i>v_range</i> VLAN list contains all VLANs except those specified.</li> </ul> </li> </ul> <p>Valid <i>v_range</i> formats include number, range, or comma-delimited list of numbers and ranges.</p>	No
switchport trunk allowed vlan	switchport trunk allowed vlan	<p><b>Command Syntax</b></p> <pre>switchport trunk allowed vlan <i>EDIT_ACTION</i> no switchport trunk allowed vlan default switchport trunk allowed vlan</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>EDIT_ACTION</i> modifications to the VLAN list. <ul style="list-style-type: none"> <li>— <i>v_range</i> Creates VLAN list from <i>v_range</i>.</li> <li>— <b>add</b> <i>v_range</i> Adds specified VLANs to current list.</li> <li>— <b>all</b> VLAN list contains all VLANs.</li> <li>— <b>except</b> <i>v_range</i> VLAN list contains all VLANs except those specified.</li> <li>— <b>none</b> VLAN list is empty (no VLANs).</li> <li>— <b>remove</b> <i>v_range</i> Removes specified VLANs from current list.</li> </ul> </li> </ul> <p>Valid <i>v_range</i> formats include number, range, or comma-delimited list of numbers and ranges.</p>	No



## APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
switchport trunk native vlan	switchport trunk native vlan	<p><b>Command Syntax</b></p> <pre>switchport trunk native vlan <i>VLAN_ID</i> no switchport trunk native vlan default switchport trunk native vlan</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>VLAN_ID</i> the ID of the native VLAN. Options include <ul style="list-style-type: none"> <li>— <i>v_num</i> VLAN number. Value ranges from 1 to 4094</li> <li>— <i>tag</i> interface drops all untagged frames.</li> </ul> </li> </ul>	No
switchport vlan mapping	switchport vlan mapping	<p><b>Command Syntax</b></p> <pre>switchport vlan mapping [<i>DIRECTION</i>] <i>source_vlan</i> <i>dest_vlan</i> no switchport vlan mapping <i>source_vlan</i> <i>dest_vlan</i> no switchport vlan mapping <i>DIRECTION</i> <i>source_vlan</i> default switchport vlan mapping <i>source_vlan</i> <i>dest_vlan</i> default switchport vlan mapping <i>DIRECTION</i> <i>source_vlan</i></pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>DIRECTION</i> transmission direction of traffic to be mirrored. <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; mirrors transmitted and received traffic.</li> <li>— <i>in</i> mirrors received traffic only.</li> <li>— <i>out</i> mirrors transmitted traffic only.</li> </ul> </li> <li>• <i>source_vlan</i> Source VLAN. Value ranges from 1 to 4094.</li> <li>• <i>dest_vlan</i> Source VLAN. Value ranges from 1 to 4094.</li> </ul>	No

## APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
tacacs-server host	tacacs-server host	<p><b>Command Syntax</b></p> <pre>tacacs-server host <i>SERVER_ADDR</i> [<i>MULTIPLEX</i>] [<i>VRF_INST</i>] [<i>PORT</i>] [<i>TIMEOUT</i>] [<i>ENCRYPT</i>] no tacacs-server host [<i>SERVER_ADDR</i>] [<i>MULTIPLEX</i>] [<i>VRF_INST</i>] [<i>PORT</i>] default tacacs-server host [<i>SERVER_ADDR</i>] [<i>MULTIPLEX</i>] [<i>VRF_INST</i>] [<i>PORT</i>]</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <b>SERVER_ADDR</b> TACACS+ server location. Options include: <ul style="list-style-type: none"> <li>— <i>ipv4_addr</i> server's IPv4 address.</li> <li>— <i>ipv6_addr</i> server's IPv6 address.</li> <li>— <i>host_name</i> server's DNS host name (FQDN).</li> </ul> </li> <li>• <b>MULTIPLEX</b> TACACS+ server support of multiplex sessions on a TCP connection. <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; server does not support multiplexing.</li> <li>— <b>single-connection</b> server supports session multiplexing.</li> </ul> </li> <li>• <b>VRF_INST</b> specifies the VRF instance used to communicate with the specified server. <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; switch communicates with the server using the default VRF.</li> <li>— <b>vrf vrf_name</b> switch communicates with the server using the specified user-defined VRF.</li> </ul> </li> <li>• <b>PORT</b> port number of the TCP connection. <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; default port of 49.</li> <li>— <b>port number</b> port <i>number</i> ranges from 1 to 65535.</li> </ul> </li> <li>• <b>TIMEOUT</b> timeout period (seconds). <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; assigns the globally configured timeout value (see <a href="#">tacacs-server timeout</a>).</li> <li>— <b>timeout number</b> timeout period (seconds). <i>number</i> ranges from 1 to 1000.</li> </ul> </li> <li>• <b>ENCRYPT</b> encryption key the switch and server use to communicate. Settings include <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; assigns the globally configured encryption key (see <a href="#">tacacs-server key</a>).</li> <li>— <b>key key_text</b> where <i>key_text</i> is in clear text.</li> <li>— <b>key 5 key_text</b> where <i>key_text</i> is in clear text.</li> <li>— <b>key 7 key_text</b> where <i>key_text</i> is an encrypted string.</li> </ul> </li> </ul>	No

## APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
tacacs-server key	tacacs-server key	<p><b>Command Syntax</b></p> <pre>tacacs-server key [ENCRYPT_TYPE] encrypt_key no tacacs-server key default tacacs-server key</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>ENCRYPT_TYPE</i> encryption level of <i>encrypt_key</i>. <ul style="list-style-type: none"> <li>— &lt;no parameter&gt; encryption key is entered as clear text.</li> <li>— 0 encryption key is entered as clear text. Equivalent to &lt;no parameter&gt;.</li> <li>— 7 <i>encrypt_key</i> is an encrypted string.</li> </ul> </li> <li>• <i>encrypt_key</i> shared key that authenticates the username. <ul style="list-style-type: none"> <li>— <i>encrypt_key</i> must be in clear text if <i>ENCRYPT_TYPE</i> specifies clear text.</li> <li>— <i>encrypt_key</i> must be an encrypted string if <i>ENCRYPT_TYPE</i> specifies an encrypted string.</li> </ul> </li> </ul> <p>Encrypted strings entered through this parameter are generated elsewhere.</p>	No
tacacs-server timeout	tacacs-server timeout	<p><b>Command Syntax</b></p> <pre>tacacs-server timeout time_period no tacacs-server timeout default tacacs-server timeout</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>time_period</i> timeout period (seconds). Settings range from 1 to 1000. Default is 5.</li> </ul>	No

## APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
terminal length	terminal length	<b>Command Syntax</b> <code>terminal length lines</code> <code>no terminal length</code> <code>default terminal length</code>  <b>Parameters</b> <ul style="list-style-type: none"> <li><i>lines</i> number of lines to be displayed at a time. Values range from 0 through 32767. A value of 0 disables pagination.</li> </ul>	No
terminal monitor	terminal monitor	<b>Command Syntax</b> <code>terminal monitor</code> <code>no terminal monitor</code> <code>default terminal monitor</code>	Yes
timers basic (RIP)	timers basic (RIP)	<b>Command Syntax</b> <code>timers basic update_time expire_time deletion_time</code> <code>no timers basic</code> <code>default timers basic</code>  <b>Parameters</b> <ul style="list-style-type: none"> <li><i>update_time</i> Default is 30 seconds</li> <li><i>expire_time</i> Default is 180 seconds.</li> <li><i>deletion_time</i> Default is 120 seconds.</li> </ul> <p>Parameter values are in seconds and range from 5 to 2147483647.</p>	No

**APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax**

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
timers bgp	timers bgp	<p><b>Command Syntax</b></p> <pre>timers bgp keep_alive hold_time no timers bgp default timers bgp</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>keep_alive</i> keepalive period, in seconds. Values include <ul style="list-style-type: none"> <li>— 0 keepalive messages are not sent</li> <li>— 1 to 3600 keepalive time (seconds).</li> </ul> </li> <li>• <i>hold_time</i> hold time. Values include <ul style="list-style-type: none"> <li>— 0 peering is not disabled by timeout expiry; keepalive packets are not sent.</li> <li>— 3 to 7200 hold time (seconds).</li> </ul> </li> </ul>	No
timers lsa arrival	timers lsa arrival (OSPFv2)	<p><b>Command Syntax</b></p> <pre>timers lsa arrival lsa_time no timers lsa arrival default timers lsa arrival</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• <i>lsa_time</i></li> </ul>	No

## APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
timers throttle lsa all	timers throttle lsa all (OSPFv2)	<p><b>Command Syntax</b></p> <pre>timers throttle lsa all initial_delay min_hold max_wait no timers throttle lsa all default timers throttle lsa all</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>initial_delay</i> Value ranges from 0 to 600000 (ms). Default is 1000.</li> <li><i>min_hold</i> Value ranges from 0 to 600000 (ms). Default is 5000.</li> <li><i>max_wait</i> Value ranges from 0 to 600000 (ms). Default is 5000.</li> </ul>	No
timers throttle spf	timers throttle spf (OSPFv2)	<p>Not in Arista User Manual v.4.15.3F.</p> <p>Appears in Arista User Manual 4.14.3F (Oct. 2014) (CSI-CLI-00018146) with the syntax:</p> <pre>timers throttle spf initial_delay min_hold max_wait</pre>	?

## APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
username sshkey	username sshkey	<p><b>Command Syntax</b></p> <pre>username name sshkey KEY no username name sshkey [role] default username name sshkey [role]</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>name</i> username text that the user enters at the login prompt to access the CLI. Valid usernames begin with A-Z, a-z, or 0-9 and may also contain any of these characters:  <div style="text-align: center;">           @ # \$ % ^ &amp; * - _ =            + ; &lt; &gt; , . ~           </div> </li> <li><i>KEY</i> SSH key. Options include:           <ul style="list-style-type: none"> <li><i>key_text</i> username is associated with ssh key specified by <i>key_text</i> string.</li> <li><i>file key_file</i> username is associated with ssh key in the specified file.</li> </ul> </li> </ul>	No
vlan internal allocation policy	vlan internal allocation policy	<p><b>Command Syntax</b></p> <pre>vlan internal allocation policy DIRECTION [RANGE_VLAN] no vlan internal allocation policy default vlan internal allocation policy</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>DIRECTION</i> VLAN allocation number direction. Options include:           <ul style="list-style-type: none"> <li><i>ascending</i> allocates internal VLANs from lower VLAN bound to upper VLAN bound.</li> <li><i>descending</i> allocates internal VLAN from upper VLAN bound to lower VLAN bound.</li> </ul> </li> <li><i>RANGE_VLAN</i> allocation range. Options include:           <ul style="list-style-type: none"> <li><i>&lt;no parameter&gt;</i> 1006 (lower bound) to 4094 (upper bound).</li> <li><i>range lower upper</i> specifies lower bound (<i>lower</i>) and upper bound (<i>upper</i>).</li> </ul> </li> </ul>	No

## APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
vrf definition	vrf definition	<p><b>Command Syntax</b></p> <pre>vrf definition vrf_name no vrf definition vrf_name default vrf definition vrf_name</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>vrf_name</i> Name of VRF being created, deleted or configured. The names “main” and “default” are reserved.</li> </ul>	No
vrf forwarding	vrf forwarding	<p><b>Command Syntax</b></p> <pre>vrf forwarding vrf_name no vrf forwarding [vrf_name] default vrf forwarding [vrf_name]</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>vrf_name</i> name of configured VRF.</li> </ul>	No
vrrp authentication	vrrp authentication	<p><b>Command Syntax</b></p> <pre>vrrp group authentication AUTH_PARAMETER no vrrp group authentication default vrrp group authentication</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>group</i> virtual router identifier (VRID). Values range from 1 to 255.</li> <li><i>AUTH_PARAMETER</i> encryption level and authentication key used by router. Options include: <ul style="list-style-type: none"> <li><b>text</b> <i>text_key</i> plain-text authentication, <i>text_key</i> is text.</li> <li><i>text_key</i> plain-text authentication, <i>text_key</i> is text.</li> <li><b>ietf-md5 key-string 0</b> <i>text_key</i> IP authentication of MD5 key hash, <i>text_key</i> is text.</li> <li><b>ietf-md5 key-string</b> <i>text_key</i> IP authentication of MD5 key hash, <i>text_key</i> is text.</li> <li><b>ietf-md5 key-string 7</b> <i>coded_key</i> IP authentication of MD5 key hash, <i>coded_key</i> is MD5 hash.</li> </ul> </li> </ul>	No



## APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
vrrp delay reload	vrrp delay reload	<p><b>Command Syntax</b></p> <pre>vrrp group delay reload [INTERVAL] no vrrp group delay reload default vrrp group delay reload</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><b>INTERVAL</b> The number of seconds for the delay (seconds). Options include: <ul style="list-style-type: none"> <li>&lt;no parameter&gt; Default value of 0 seconds.</li> <li>&lt;0 to 3600&gt; Ranges between 0 and 60 minutes.</li> </ul> </li> </ul>	No
vrrp description	vrrp description	<p><b>Command Syntax</b></p> <pre>vrrp group description label_text no vrrp group description default vrrp group description</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><b>group</b> virtual router identifier (VRID). Values range from 1 to 255.</li> <li><b>label_text</b> text that describes the virtual router. Maximum string length is 80 characters.</li> </ul>	No
vrrp ip	vrrp ip	<p><b>Command Syntax</b></p> <pre>vrrp group ip ipv4_address no vrrp group ip ipv4_address default vrrp group ip ipv4_address</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><b>group</b> virtual router identifier (VRID). Values range from 1 to 255.</li> <li><b>ipv4_address</b> IPv4 address of the virtual router.</li> </ul>	No

## APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
vrrp ip secondary	vrrp ip secondary	<p><b>Command Syntax</b></p> <pre>vrrp group ip ipv4_addr secondary no vrrp group ip ipv4_addr secondary default vrrp group ip ipv4_addr secondary</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>group</i> virtual router identifier (VRID). Values range from 1 to 255.</li> <li><i>ipv4_addr</i> secondary IPv4 address of the virtual router.</li> </ul>	No
vrrp preempt	vrrp preempt	<p><b>Command Syntax</b></p> <pre>vrrp group preempt no vrrp group preempt default vrrp group preempt</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>group</i> virtual router identifier (VRID). Values range from 1 to 255.</li> </ul>	No
vrrp priority	vrrp priority	<p><b>Command Syntax</b></p> <pre>vrrp group priority level no vrrp group priority default vrrp group priority</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>group</i> virtual router identifier (VRID). Values range from 1 to 255.</li> <li><i>level</i> priority setting for the specified virtual router. Values range from 1 to 254.</li> </ul>	No

## APPENDIX N – Comparison of Command Abstractions to Actual Documented EOS Command Syntax

Asserted Cisco Command Abstraction	Accused Arista Command Abstraction	Actual Documented Arista EOS Command Syntax (Arista EOS version 4.15.3F) (CSI-CLI-06302874)	Complete Command?
vrrp shutdown	vrrp shutdown	<p><b>Command Syntax</b></p> <pre>vrrp group shutdown no vrrp group shutdown default vrrp group shutdown</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>group</i> virtual router identifier (VRID). Values range from 1 to 255.</li> </ul>	No
vrrp timers advertise	vrrp timers advertise	<p><b>Command Syntax</b></p> <pre>vrrp group timers advertise adv_time no vrrp group timers advertise default vrrp group timers advertise</pre> <p><b>Parameters</b></p> <ul style="list-style-type: none"> <li><i>group</i> virtual router identifier (VRID). Values range from 1 to 255.</li> <li><i>adv_time</i> advertisement interval (seconds). Values range from 1 to 255. Default value is 1.</li> </ul>	No